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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/092,503	03/08/2002	Kazuhiro Wataya	0171-0829P	1264
	590 11/03/2004		EXAMINER	
BIRCH STEWART KOLASCH & BIRCH PO BOX 747			AHMED, SHEEBA	
FALLS CHUR	CH, VA 22040-0747		ART UNIT	PAPER NUMBER
			1773	
			DATE MAILED: 11/03/2004	l .

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
	Office Action Summers	10/092,503	WATAYA ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Sheeba Ahmed	1773				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence address				
I HE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period we use to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ib(a). In no event, however, may a reply be ti within the statutory minimum of thirty (30) da ill apply and will expire SIX (6) MONTHS from	mely filed ys will be considered timely. the mailing date of this communicatio	n.			
Status	.,						
1)🖂	Responsive to communication(s) filed on 13 Au	aust 2004.					
	☐ This action is FINAL . 2b)☐ This action is non-final.						
3)							
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.	•			
Dispositi	on of Claims						
4)⊠	Claim(s) <u>1-15</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdraw	n from consideration					
	Claim(s) is/are allowed.	n from consideration.					
	Claim(s) <u>1,2 and 4-15</u> is/are rejected.						
1	Claim(s) 3 is/are objected to.						
		election as a stress of					
	Claim(s) are subject to restriction and/or	election requirement.					
	on Papers						
	The specification is objected to by the Examiner.						
10)[_]	Γhe drawing(s) filed on is/are: a)☐ acce	oted or b) \square objected to by the E	Examiner.				
	Applicant may not request that any objection to the di	rawing(s) be held in abeyance. See	37 CFR 1.85(a).				
<u></u>	Replacement drawing sheet(s) including the correction	n is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
11)[] 7	The oath or declaration is objected to by the Exa	miner. Note the attached Office	Action or form PTO-152.				
	nder 35 U.S.C. § 119						
a)[∑	Acknowledgment is made of a claim for foreign p All b) Some * c) None of: 1. Certified copies of the priority documents	have been received.					
2	2. Certified copies of the priority documents have been received in Application No						
;	3. Copies of the certified copies of the priority application from the International Bureau (y documents have been receive	d in this National Stage				
* Se	ee the attached detailed Office action for a list of						
	and attached detailed office action for a list of	the certified copies not received	1.				
Attach	a)						
Attachment(🗖 .					
2) Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (Paper No(s)/Mail Dat	PTO-413) e				
3) 🔲 Informa	ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) U Notice of Informal Pa					
Paper	No(s)/Mail Date	6) Other:	•				
S. Patent and Trac TOL-326 (Rev	4.00	n Summary Part	of Paper No./Mail Date 10282004	 I			

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DETAILED ACTION

Response to Amendment

1. The Response filed on August 13, 2004 has been entered in the above-identified application. **Claims 1-15 are pending**.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 2, and 4-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Tajima et al. (US 5,061,560).

Tajima et al. disclose spherical grains of rare earth oxides (Column 1, lines 8-10) having a mean grain diameter of about 20-300 microns (Column 1, lines 56-58). The rare earth oxides employed may be selected from La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Y, or Sc. Oxides of Y are preferred (Column 1, lines 65-68 and Column 2, lines 1-2). Example 1 shows that the agglomerated spherical grains have a mean grain diameter of 49.5 microns and the grain diameter distribution of 20 to 80 microns. The grains may be formed into a disk plate and baked at a temperature of 1700°C. The resulting body had a density of 4.9 g/cc (Column 2, lines 55-68). The grains have a bulk density of 1.2 to 2g/cc (Claim 8) and the grains are formed by preparing a slurry of a rare earth oxide powder having a mean grain diameter of 1

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micron or smaller. All limitations of claims 1, 2, and 4-15 are disclosed in the above reference.

Allowable Subject Matter

3. Claim 3 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior Office Action contained a typographical error and indicated, in error, that claim 4 was both allowable and rejected under rejected under 35 U.S.C. 102(b) as being anticipated by Tajima et al. (US 5,061,560). The typographical error is hereby being corrected.

Response to Arguments

4. Applicants traverse the rejection of claims 1, 2, and 4-15 under 35 U.S.C. 102(b) as being anticipated by Tajima et al. (US 5,061,560) and submit that Tajima teaches that their spherical grains of rare-earth oxides are useful in the manufacture of sintered products whereas the claimed particles are used for thermal spraying. However, the Examiner would like to point out that the limitation upon which the Applicants are relying is an intended use limitation and does not limit the scope of the claim.

Applicants' further state that Tajima's particles contain 0.1 to 1.0 wt.% organic acid whereas the presently claimed particles do not contain acid however the Examiner

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takes the position that the presented claimed invention does not preclude the presence of organic acids.

Although Applicants' further state that Tajima fails to teach that the breaking strength and the cumulative pore volume of the claimed invention, the Applicants fail to specifically point out how the language of the claims patentably distinguishes them from the references.

Hence, the above rejection is maintained.

Conclusion

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sheeba Ahmed whose telephone number is (571)272-

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1504. The examiner can normally be reached on Mondays and Thursdays from 9:30am to 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones can be reached on (571)272-1535. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sheeba Ahmed Art Unit 1773

May 14, 2004